

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2018/2019

DCS5288 – INTERNET AND WEB PUBLISHING (All IT Groups)

13 MARCH 2019 2:30 p.m. – 4:30 p.m. (2 Hours)

INSTRUCTIONS TO STUDENT:

- 1. This question paper consists of 12 pages with 2 sections.
- 2. SECTION A: Answer ALL Multiple Choice Questions on the OMR sheet given.
- 3. **SECTION B**: Answer **ALL** Structured Questions in the Answer Booklet provided.

SECTION A (10 Marks)

Instruction: Answer ALL questions from this section and shade your answers on the OMR sheet provided.

1.	Whi	ich of the following is NOT the ad	lvanta	ge of web applications?		
	A. Accessible from any internet-enabled computer.					
	B.	Usable with different operating				
	C.		_	e only need to update software on		
	D.	Centralized storage on the client	side.			
2.			and di	fficult to have multiple conversations		
		ultaneously.		B		
	Α.	Packet switching		Router switching		
	B.	Circuit switching	D.	Message switching		
3.	The stack	TCP/IP Internet protocols were	origin	ally abstracted as a layer		
	A.		C.	5		
	B.		D.			
	ט.	7	D.	· ·		
4,	A. B.	ch of the following is FALSE about it is suitable for the contents that Dynamic functionality has to be Involves database design. Maintaining large numbers of statements without automated tools.	never added	r or rarely need to be updated. separately.		
5.	Whi A.	ch of the following syntax is COF My				
	В.	<a href_mail="abc@gmail.com</th><th></th><th></th></tr><tr><th></th><th>C.</th><th><a href=" mail:abc@gmail.com"<="" th=""><th>-</th><th></th>	-			
	D.					

YHY/KJG

9.	Whi	ch of the following are the valid c	olor	values in CSS?
	i.	RGB values	iii.	
	ii.	Hexadecimal values	iv.	
	A.	i, ii and iii	C.	* -
	В.	i, ii and iv	D.	•
	٥.	2, 22 0220 27		7 III of the above
10	. A C	SS document consists of:		
	i.	Type	iii.	Value
	ii.	Selector	iv.	Property
	A.	i, ii and iii	C.	
	B.	i, ii and iv	D.	All of the above
11	-			rencing a single HTML element.
	Α.	Id selector	C.	Universal selector
	B.	Class selector	D.	Single selector
12	₩/hi	ch of the following is the correct s	eaner	ace in defining the position of margin?
12	. W лл А.	Top, left, bottom, right	cquon	ice in demang the position of margin:
	B.	Top, right, bottom, left		
	C.			
	D.	Top, bottom, right, left Top, bottom, left, right		
	D .	rop, bottom, tert, right		
13.		data type in JavaScrit	ot can	only have two possible values that is
		or false.		
	A.	String	C.	Number
	B.	Boolean	D.	Null Array
				•
14.			e can	be used to display separate line strings
		ert box?	~	ch us
	A.	\n	C.	
	B.	/n	D.	>
15	Whe	en the browser's JavaScript engi	ne er	acounters an error, it will throw an
	* ** 110			ne regular, sequential execution of the
	prog	ram.	ap: a	o robermi podeomini circomion or mo
	A. Č	Block	C.,	Debugger
	B.	Exception	D.	Statement
		•		
16.			s of tl	he variable, number to 4, which of the
		wing can be used?		
	A.	number.toFixed(4);	C.	number.decimal(4);
	В.	number.ceil(4);	D.	number.format(4);
. ~	A	1 1	T. 37	CERT
ι7.		eb server has many responsibilities	s, EX	CEPT:
		Managing database connections		
		Encrypting and compressing data		
		Separating the content from the ap		
	D.	Handling Transmission Control Pr	rotoco	of (TCP) connections
				Continued
				Commune

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18. In PHP, if the URL sent to the server looks like the one shown below. Which form method was used to create the form?

http://localhost/assign1/newuser?user=lindapass=a						
A.	Response	C.	Get			
B.	Retrieve	D.	Post			

19. \$_REQUEST in PHP can be used for _

A. Get method only

C. Both post and get methods

B. Post method only

D. None of the above

20. What does isset () function do in PHP?

A. It checks whether variable is set or not.

B. It checks whether variable is free or not.

C. It checks whether variable is string or integer.

D. None of the above.

SECTION B (40 Marks)

Instruction: Answer ALL questions from this section in the Answer Booklet provided.

Question 1 - HTML (10 Marks)

(a) Write the complete HTML codes for the table shown below.

[7 marks]

• The table title is Nutrition Facts for Crackers.

SAMPLE OUTPUT

	Nutrition Facts							
Per !	9 crackers (23g)	Amount per Serving	% Daily value					
Calories		90						
Tet	Saturated	2.5	NA					
Fat	Trans	0						
		Eat clean!						

Figure 1: Sample output

(b) Write the HTML codes to produce the output as shown below.

[3 marks]

SAMPLE OUTPUT

III. Protein
IV. Type of Vitamins:

a. Water Soluble Vitamins

Vitamin B1

Vitamin B2

b. Fat Soluble Vitamins

V. Calcium

Figure 2: Sample output

[6 marks]

Question 2 – CSS (10 Marks)

(a) Write the External CSS codes based on the given HTML codes.

Figure 3: HTML code snippet

- All the elements in this webpage will have a padding of 20px.
- The main id:
 - Has a rounded-edge border of 10px.
 - o The border is blue and 2px in width with double straight line.
 - o Auto display the scrollbar if the overflow is clipped.
- The *box1* id:
 - o Has a rounded-edge border of 15px.
 - o The width is 200px.
 - o The border is red and 5px in width with dashed line.
 - o Float the element to the left.
- Heading 2 inside the div:
 - o The blur radius of black shadow is 15px with 7px vertical value.
- Image inside the div:
 - Set the image width and height to 100px.
- The *box2* id:
 - o Set the left margin of 10px.
 - Float the element to left.
- All paragraphs in the box2 id:
 - o Capitalize the text.
 - o Overline and bold the text.
 - o Use "Verdana" font.
 - o The spacing of each letter is 5px.

SAMPLE OUTPUT

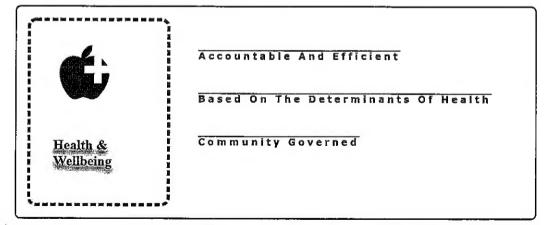


Figure 4: Sample output

(b) Write the Internal CSS codes based on the given HTML codes.

[4 marks]

```
<body>
<span class="redLine">Cyberjaya Campus:</span>
As part of TM&rsquo;s initiative to further develop the ICT industry in the nation
as a whole.....

<span class="redLine">Malacca Campus:</span>
The campus stands on a 52-acre piece of land strategically located in the vicinity
of serene residential areas......

</pod>
```

Figure 5: HTML code snippet

Paragraph:

- o The background color is lightblue.
- o The border is 1px in width and a solid black line.
- o Has a width and height of 40% and 150px respectively.
- o Content is clipped but the scrollbar will always appear.

• The cyber class:

- o Use absolute position, set the position to left 5% and top 5% respectively.
- The melaka class:
 - Use absolute position, set the position to left 55% and top 5% respectively.
- The redLine class:
 - o Enlarge the font to 1.5 times default font size.
 - o The text colour is red.
 - o Underline the text.

SAMPLE OUTPUT

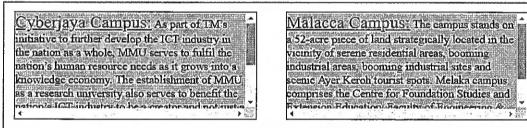


Figure 6: Sample output

Question 3 – JAVACSRIPT (10 Marks)

This program will calculate total donation amount based on user selection. The descriptions and outputs are shown below.

A form named "donation" has the following elements.

```
<h3>Children Charity </h3>
<form name="donation">
Onated by: <input type="text" name="donor">
<br> <i><span id="name_display"> &nbsp; </span></i></span></i></span></i></span></i></span></i></span></i></span></i></span></i></span></i></span></i></span></i></span></i></span></i>
IC: <input type="text" name="ic">
<br> <i><span id="ic_display"> &nbsp; </span></i>
Your monthly donation could pay for :
<br/>
<br/>
cinput type="checkbox" name="area" value="A">Plan A: Medication RM 10
chr><input type="checkbox" name="area" value="B">Plan B: Scholarship RM 20
<br><input type="checkbox" name="area" value="C" >Plan C: Meals RM 30
 6 or 12 months:
<select name="frequency">
<option value="6">6 Months </option>
<option value="12">12 Months </option>
</select>
<input type="button" name="sub btn" value="Donate" onclick="check()"> 
<b><span id="display"> &nbsp; </span></b> 
</form>
```

Figure 7: HTML code snippet

- (a) Write the JavaScript codes for the *check()* function to validate the inputs provided by user. [4 marks]
 - When the button "Donate" is clicked, check() will be called.
 - In function check():
 - o Declare all the necessary variables.
 - o Get the donor's name and IC number from the form.
 - o Donor's name must not be null and it must be letter. Otherwise an error message "Please enter a valid name" will be displayed by using inner HTML property.
 - IC number must not be null and it must be digit. The length of the IC must be 12 digits. Otherwise an error message "Please enter a valid IC" will be displayed by using inner HTML property.
 - o If all values from the form are valid, call function get_total(...) by passing donor's name and IC number.
- (b) Write the JavaScript codes for get_total(...) to calculate the total donation amount based on the type of plans and period selected by user. [6 marks]
 - In function get total(...):
 - Declare all the necessary variables.
 - o Get the plans and frequency from the form.

- o Using a for loop:
 - Identify whether each checkbox is checked.
 - If the checkbox is checked, add the plan's value into an array.
- o Using a while loop:
 - Use a switch case statement to determine the donation amount of plans selected.

Table 1: Plans and donation amount

Plans	(RM)
Plan A: Medication	10.00
Plan B: Scholarship	20.00
Plan C:Meals	30.00

- o Calculate the total donation amount based on the frequency selected.
- Display the donor's name, IC number, total of donation amount and plans selected using inner HTML property as shown in the sample output.

SAMPLE OUTPUT

• If the user key in the invalid input.

Children Charity
Donated by: Please enter a valid name
IC:
Please enter a valid IC
Your monthly donation could pay for : Plan A: Medication RM 10
Plan B: Scholarship RM 20 Plan C: Meals RM 30
6 or 12 months: 6 Months ▼
Donate

Figure 8: Sample output if user key in invalid input

• If the user fills out the information and clicks on the "Donate" button, the relevant information will be displayed.

Children Charity
Donated by: Jacky Cheung
IC: 821019075957
Your monthly donation could pay for : ☑ Plan A: Medication RM 10 ☑ Plan B: Scholarship RM 20 ☑ Plan C: Meals RM 30
6 or 12 months: 6 Months ▼
Donate
Donor:Jacky Cheung IC: 821019075957 Total Donation: RM180 Plan(s):A,B

Figure 9: Sample output if user chooses 6 months with 2 plans

• If the user fills out the information and clicks on the "Donate" button, the relevant information will be displayed.

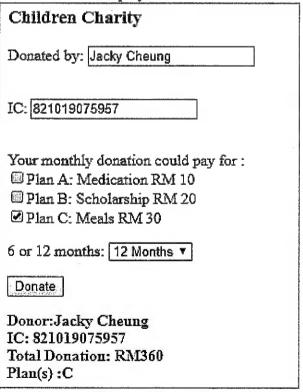


Figure 10: Sample output if the user chooses 12 months with only 1 plan.

Question 4 – PHP (10 Marks)

Tables below are the database tables for a simple quiz system. Each table shows attribute name and records that already exist in the database.

Table 2: test

testII) testName
1	Quiz 1
2	IWP Final Quiz
3	Grammar Quiz

Table 3: question

gweeth.	quesID quesQuestion quesAnsA quesAnsB quesAnsC quesAnsD quesAnswer testID							
duesin	PATRONE AND THE CO. THE CO. THE CO. T. C.	quesausa	quesanso	quesansc	quesansu	quesAnswer	testan	
1	I tennis every Sunday morning	playing	play	am playing	am play	В	1	
2	How many students in your class from Penang?	comes	come	came	are coming	В	1	
3	Equipment needed to allow computers to connect to Internet is called	Modem	Telephone	Television	None of the above	Α	2	
4	IPv6 addresses have size of bits.	32	64	128	265	С	2	
5	Which multiple access technique is used by IEEE 802.11 standard for wireless LAN?	CDMA	CSMA/CA	ALOHA	None of the above	В	2	
6	l don't have much time for reading as I would like to.	as	more	so	Тоо	A	3	
7	My students' sleepless nights became frequently as the finals approached.	so	more	as	much more	В	3	

(a) Create a complete PHP code page named *connect.php* page which configure the connection to the database *quiz*. The information are given as below:

Server name: localhost
MySQL username: root
MySQL password: ""
Database name: quiz

If the connect is successfully established, select the database, otherwise, display the error message. [2 marks]

(b) Figure below shows a page named *viewAllQuiz.php*. It lists all the tests and the total number of questions of each test from the database. There are two actions that can be performed to each of the test: view all questions and delete the test.

No.	Test Name	Total Questions	Actions	
1	Quiz 1	2	VIEW QUESTIONS	DELETE
2 IWP Final Quiz		3	VEW QUESTIONS	DELETE
3	Grammar Quiz	2	VIEW QUESTIONS	DELETE

Figure 11: viewAllQuiz.php

viewQuestion.php?testID=3

When a user click on the action "VIEW QUESTIONS", it links to viewQuestion.php to display all questions of that particular test as shown below. Note that the link is a hyperlink that carries test's ID information. Write a complete PHP code page viewQuestion.php to display the questions. Remember that you need to include the connect.php in order to be able to access the database.

[6 marks]

A header size of 2 that display the test's name.

I. I don't have ___ much time for reading as I would like to.

A. as

B. more

C. so

D. too

ANSWER A

2. My students' sleepless nights became ____ frequently as the finals approached.

A. so

B. more

C. as

D. much more

ANSWER B

Figure 12: viewQuestion.php

Display one question by using one table. (c) In *viewAllQuiz.php* page, when a user clicked on the action "DELETE", it links to the same page by carries the test's ID and a variable *del*. The clicked test and all questions belong to the test will be removed from the database. When the deletion is done, the page will automatically heading back to *viewAllQuiz.php*. Write only the PHP code that delete the selected test and questions from database.

[2 marks]

No.	Test Name	Total Questions	Actions	
1	Quiz 1	2	VIEW QUESTIONS DEL	
2	IWP Final Quiz	3	<u>VIEW QUESTIONS</u>	DELETE
3	Grammar Quiz	2	VIEW QUESTIONS DELE	

Figure 13: viewAllQuiz.php

viewAllQuiz.php?testID=3&del